### Anti-Cytosolic Phospholipase A2 antibody [C1]

**ab239730**

#### Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-Cytosolic Phospholipase A2 antibody [C1]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Mouse monoclonal [C1] to Cytosolic Phospholipase A2</td>
</tr>
<tr>
<td>Host species</td>
<td>Mouse</td>
</tr>
<tr>
<td>Tested applications</td>
<td>Suitable for: WB, IHC-P</td>
</tr>
<tr>
<td>Species reactivity</td>
<td>Reacts with: Human</td>
</tr>
<tr>
<td></td>
<td>Predicted to work with: Mouse, Rat, Rabbit, Horse, Cow, Orangutan</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Recombinant fragment corresponding to Human Cytosolic Phospholipase A2 aa 563-749. N-Terminal His-tag. Expressed in E.coli</td>
</tr>
<tr>
<td></td>
<td>Sequence: RPQRGVDLIDSFDFSARPSDSPFKELLLAEKWAKM NKLPFKIDPYVF DREGLKECYVFKPKNPDEMKECPTIIHFVLANIFRKYPK APGVPRETEEKE KEADFDIFDDPESPSTFNQYPQAFKRLHDLMHFN TLNNIDVKEAM VESIEYRRQNSCSCVSLSNVEARRFFNKEFLSKPKA</td>
</tr>
<tr>
<td></td>
<td>Database link: P47712</td>
</tr>
</tbody>
</table>

#### Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage buffer</td>
<td>pH: 7.40</td>
</tr>
<tr>
<td></td>
<td>Preservative: 0.02% Sodium azide</td>
</tr>
<tr>
<td></td>
<td>Constituents: PBS, 50% Glycerol</td>
</tr>
</tbody>
</table>
Purity: Protein A/G purified

Purification notes: Purified from TCS.

Clonality: Monoclonal

Clone number: C1

Isotype: IgG2b

Light chain type: kappa

Function: Selectively hydrolyzes arachidonyl phospholipids in the sn-2 position releasing arachidonic acid. Together with its lysophospholipid activity, it is implicated in the initiation of the inflammatory response.

Tissue specificity: Expressed in various tissues such as macrophages, platelets, neutrophils, fibroblasts and lung endothelium.

Sequence similarities: Contains 1 C2 domain. Contains 1 PLA2c domain.

Domain: The N-terminal C2 domain associates with lipid membranes upon calcium binding. It modulates enzyme activity by presenting the active site to its substrate in response to elevations of cytosolic Ca(2+).

Post-translational modifications: Activated by phosphorylation at both Ser-505 and Ser-727.


Applications

Our Abpromise guarantee covers the use of ab239730 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 0.5 - 5 µg/ml. Predicted molecular weight: 85 kDa.</td>
</tr>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use a concentration of 5 - 30 µg/ml.</td>
</tr>
</tbody>
</table>

Target

Function: Selectively hydrolyzes arachidonyl phospholipids in the sn-2 position releasing arachidonic acid.

Tissue specificity: Expressed in various tissues such as macrophages, platelets, neutrophils, fibroblasts and lung endothelium.

Sequence similarities: Contains 1 C2 domain. Contains 1 PLA2c domain.

Domain: The N-terminal C2 domain associates with lipid membranes upon calcium binding. It modulates enzyme activity by presenting the active site to its substrate in response to elevations of cytosolic Ca(2+).

Post-translational modifications: Activated by phosphorylation at both Ser-505 and Ser-727.

Paraffin-embedded human glioma tissue stained for Cytosolic Phospholipase A2 using ab239730 at 30 μg/ml in immunohistochemical analysis. DAB staining.

All lanes: Anti-Cytosolic Phospholipase A2 antibody [C1] (ab239730) at 1 μg/ml

Lane 1: Human lung lysate
Lane 2: PC-3 (human prostate adenocarcinoma cell line) cell lysate
Lane 3: HeLa (human epithelial cell line from cervix adenocarcinoma) cell lysate

Secondary
All lanes: HRP-Linked Rabbit Anti-Mouse IgG at 1/5000 dilution

Predicted band size: 85 kDa
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytosolic Phospholipase A2 antibody [C1] (ab239730)

Paraffin-embedded human kidney tissue stained for Cytosolic Phospholipase A2 using ab239730 at 30 µg/ml in immunohistochemical analysis. DAB staining.

Western blot - Anti-Cytosolic Phospholipase A2 antibody [C1] (ab239730)

Anti-Cytosolic Phospholipase A2 antibody [C1] (ab239730) at 5 µg/ml + Recombinant human Cytosolic Phospholipase A2 protein

Predicted band size: 85 kDa

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytosolic Phospholipase A2 antibody [C1] (ab239730)

Paraffin-embedded human pancreas tissue stained for Cytosolic Phospholipase A2 using ab239730 at 30 µg/ml in immunohistochemical analysis. DAB staining.
Paraffin-embedded human stomach tissue stained for Cytosolic Phospholipase A2 using ab239730 at 30 μg/ml in immunohistochemical analysis. DAB staining.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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